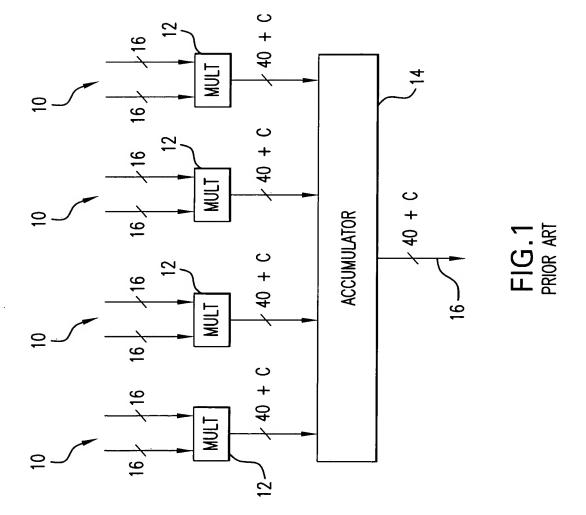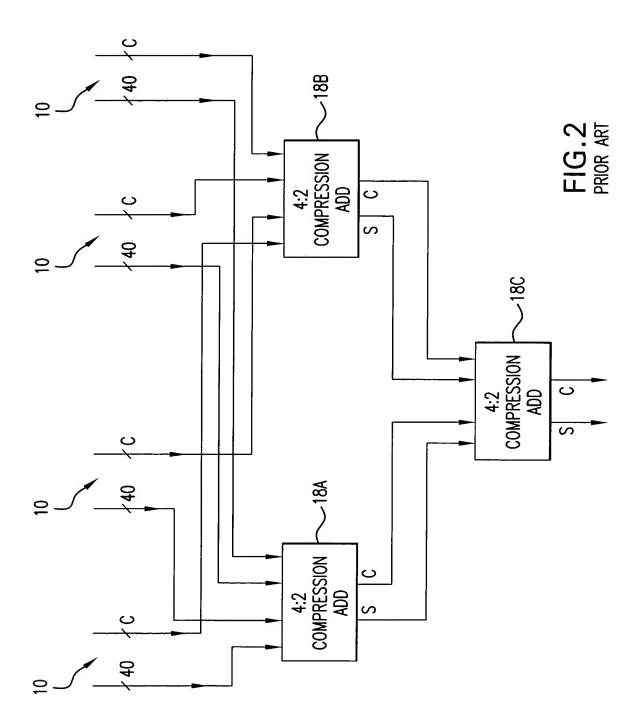FIG.1
PRIOR ART

Replacement Sheet
Sheet 2 of 8
Appl. No. 10/082,152; Filed: Feb 26, 2002
Dkt No. 1875.2530000; Group Unit: 2124
Inventor: Simon KNOWLES
Tel. No.: 202-371-2600
For: Addition Circuit for Accumulating Redundant
        Binary Numbers

FIG.2
PRIOR ART

FIG.3
PRIOR ART

FIG.4

Replacement Sheet
Sheet 5 of 8
Appl. No. 10/082,152; Filed: Feb 26, 2002
Dkt No. 1875.2530000; Group Unit: 2124
Inventor: Simon KNOWLES
Tel. No.: 202-371-2600
For: **Addition Circuit for Accumulating Redundant**
Binary Numbers

FIG.5

FIG.6

Replacement Sheet
Sheet 6 of 8
Appl. No. 10/082,152; Filed: Feb 26, 2002
Dkt No. 1875.2530000; Group Unit: 2124
Inventor: Simon KNOWLES
Tel. No.: 202-371-2600
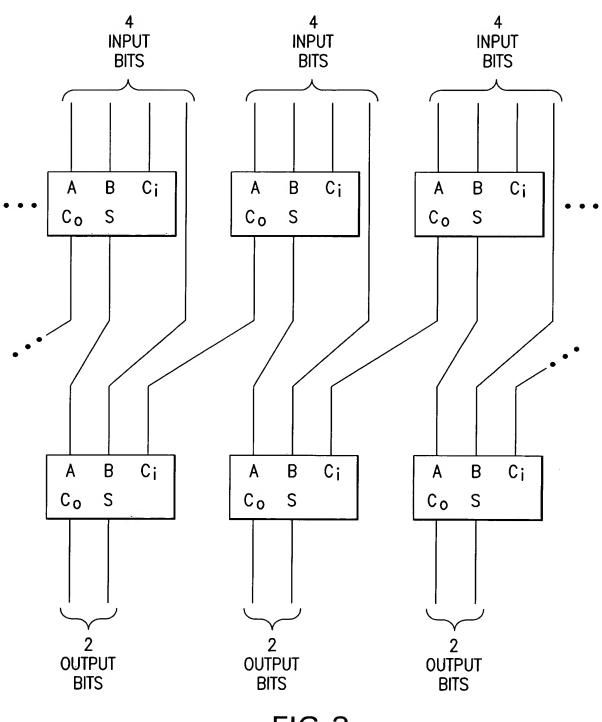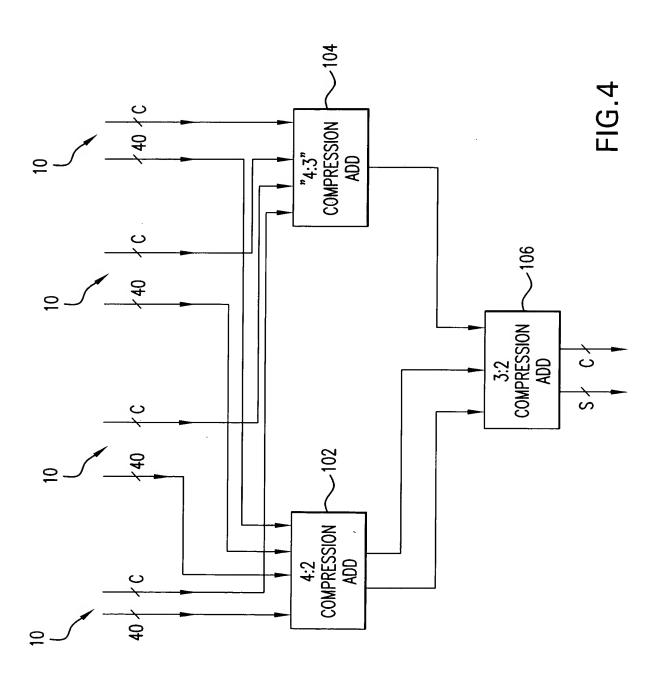For: **Addition Circuit for Accumulating Redundant Binary Numbers**

FIG.7

FIG.8

Replacement Sheet
Sheet 7 of 8
Appl. No. 10/082,152; Filed: Feb 26, 2002
Dkt No. 1875.2530000; Group Unit: 2124
Inventor: Simon KNOWLES
Tel. No.: 202-371-2600
For: Addition Circuit for Accumulating Redundant
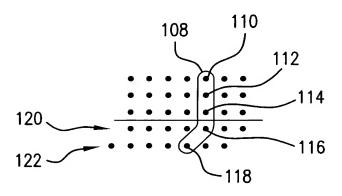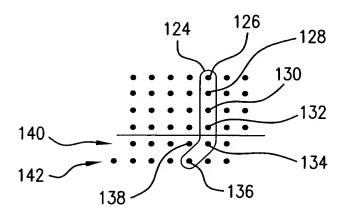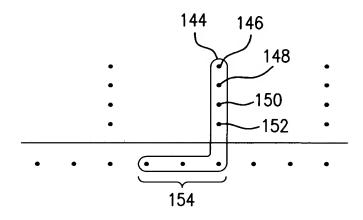   Binary Numbers

OPERAND

CARRY−SAVE   } FIRST NUMBER

OP   } SECOND NUMBER
        CS

OP   } THIRD NUMBER
        CS

OP   } FOURTH NUMBER
        CS

FIG.9

FIRST
OPERAND

THIRD
OPERAND

SECOND
OPERAND

FOURTH
OPERAND

160

162

FIG.10A

Replacement Sheet
Sheet 8 of 8
Appl. No. 10/082,152; Filed: Feb 26, 2002
Dkt No. 1875.2530000; Group Unit: 2124
Inventor: Simon KNOWLES
Tel. No.: 202-371-2600
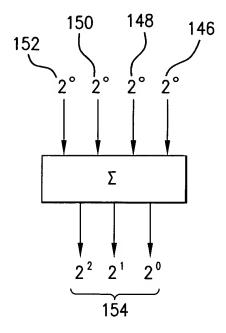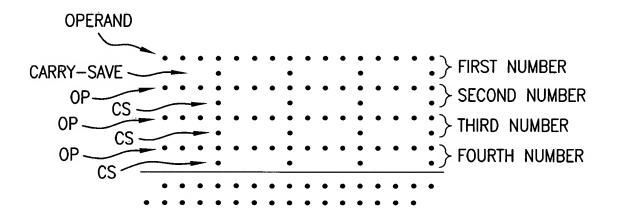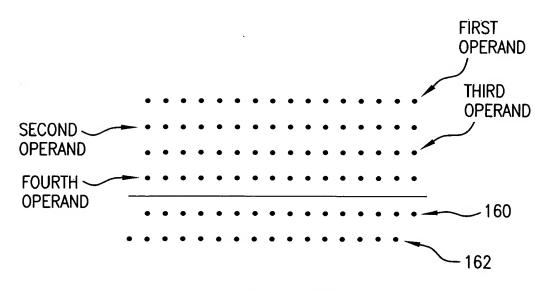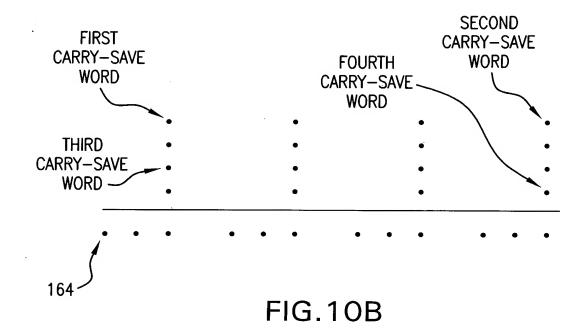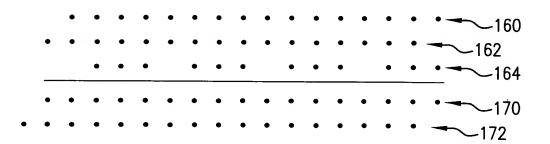For: Addition Circuit for Accumulating Redundant
Binary Numbers

FIRST
CARRY—SAVE
WORD

SECOND
CARRY—SAVE
WORD

FOURTH
CARRY—SAVE
WORD

THIRD
CARRY—SAVE
WORD

164

FIG.10B

160

162

164

170

172

FIG.10C